

Marked Up Version Of The Pending Claims under 37 C.F.R. 1.121(c)(1)(ii):

Amend claims 40-53, 60-85 and 86-124 as follows and in accordance with  
37 C.F.R. 1.121(c), by which the Applicant submits the following marked up  
version:

1-39. (previously canceled without prejudice)

40-53. (canceled without prejudice)

54-59. (previously canceled without prejudice)

60-85. (canceled without prejudice)

86. (new) A bridge tailpiece having an element to receive at least one musical  
instrument string, the element comprising:

a first string anchoring point for each string; and  
an alternate string anchoring point for each string.

87. (new) The bridge tailpiece of claim 86, wherein the bridge tailpiece further  
comprises:

a tremolo.

88. (new) The bridge tailpiece of claim 86, wherein the bridge tailpiece further  
comprises:

a fulcrum tremolo.

1 89. (new) A bridge tailpiece with a forward end and a rearward end and upper portion  
2 and a lower portion, comprising:

3 an upper portion comprising:

4 a base;

5 a bridge element connected to the base, the bridge element located closer  
6 to the forward end forming a second critical point; and

7 a first portion connected to the base and located in the rearward end  
8 forming an alternate string anchoring point closer to the lower  
9 portion than the second critical point, and

10 wherein the lower portion being attached to the upper portion and the lower  
11 portion comprises:

12 a second portion that is transverse to the alternate string anchoring point;

13 and

14 a first string anchoring point.

15 90. (new) The bridge tailpiece of claim 89, wherein the bridge tailpiece further  
16 comprises:

17 a fulcrum tremolo.

18 91. (new) The bridge tailpiece of claim 89, wherein the upper portion  
19 further comprises:

20 a string opening located between the first anchoring point and the second critical  
21 point, and

22 wherein the second portion further comprises:

23 a member with a string passageway connected to the second anchoring  
24 point having an axis, the axis being aligned to the string opening in  
25 upper portion.

- 1 92. (new) The bridge tailpiece of claim 91, wherein the bridge tailpiece further  
2 comprises:  
3       a fulcrum tremolo.
- 4 93. (new) A stringed musical instrument comprising:  
5       a body having a surface;  
6       a bridge element attached to the body; and  
7       a tailpiece element attached to the surface of the body, the tailpiece comprising:  
8           a first portion having a rearward surface having a string anchoring point  
9               formed therein, and located above the surface of the body; and  
10           a second portion that is transverse to the first portion, and extends through  
11               at least a portion of the body, the second portion comprising:  
12               a first end that connects the second portion to the first portion;  
13               a second end, the second end having an alternate string anchoring  
14               point and formed therein below the surface of the body; and  
15               an elongated passageway that extends through the second portion  
16               from the first end to the second end, along a longitudinal  
17               axis of the second portion, forming at least one opening on  
18               each end.
- 19 94. (new) An apparatus comprising:  
20       a body;  
21       a fulcrum tremolo;  
22       a biasing element comprising a first end connected to the fulcrum tremolo and a  
23           second end connected to the body; and  
24       a singular apparatus connected to the fulcrum tremolo, the singular apparatus  
25           comprising:  
              a thumbwheel operable to position a spring holder,  
              wherein rotation of the thumbwheel adjusts the tension of the biasing element.

- 1 95. (new) The apparatus of claim 94, wherein the biasing element further comprises:  
2 a U-shaped spring.

3 96. (new) An apparatus comprising:  
4 a body; and  
5 a fulcrum tremolo comprising:  
6 a biasing element comprising a first end and a second end, the first end  
7 and the second end positioned opposite from each other on the  
8 biasing element, the biasing element positioned between the  
9 fulcrum tremolo and the body;  
10 a spring holder connected to the first end of the biasing element and  
11 having a threaded portion;  
12 a singular apparatus comprising a thumbwheel, the thumbwheel  
13 comprising a threaded portion; and  
14 a threaded elongated portion, the threaded elongated portion threadedly  
15 connected to the spring holder and the threaded elongated portion  
16 threadedly connected to the singular apparatus,  
17 wherein rotation of the thumbwheel adjusts the tension of the biasing element  
18 and thereby adjusting a position of a rotation of a fulcrum tremolo.

19 97. (new) The apparatus of claim 96, wherein the thumbwheel holder further  
20 comprises:  
21 a secondary spring holder being threadedly engaged with the threaded elongated  
22 portion, and  
23 wherin the fulcrum tremolo being positioned between the thumbwheel and the  
secondary spring holder.

24 98. (new) The apparatus of claim 96, wherein the spring holder being positioned  
25 between the thumbwheel and the biasing element.

- 1        99. (new) The apparatus of claim 98, further comprising a secondary spring holder  
2        connected to the biasing element,  
3                wherinc the thumbwheel further comprises a sccond elongated threaded portion,  
4                wherein the fulcrum tremolo further comprises a threaded opening, and  
5                wherein the thumbwheel is positioned between the secondary spring holder and  
6                the threaded opening.  
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8        100. (new) An apparatus comprising:  
9                a body;  
10                a fulcrum tremolo coupled to the body through a pivot axis; and  
11                an additional apparatus coupled to the fulcrum tremolo and the body, the  
12                additional apparatus comprising a thumbwheel to the adjust position of  
13                fulcrum tremolo about the fulcrum tremolo.  
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15        101. (new) An apparatus of a stringed musical instrument comprising:  
16                at least one second critical point; and  
17                a single piece of stamped material comprising:  
18                a base plate being approximately planar comprising at least one tier for  
19                displacing the at least one second critical point from the base plate.  
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103. (new) The apparatus of claim 101, wherein the apparatus further comprises:  
1 a second critical point attached to the single piece of stamped material, and  
2 wherein the base plate further comprises:  
3 a forward edge, a portion of the forward edge being a pivot and forming a  
4 pivot axis, and  
5 an end opposite of the forward edge, and  
6 wherein the single piece of stamped material further comprises:  
7 a bend in the single piece of stamped material at an opposite end of the  
8 forward edge of the base plate;  
9 at least one string socket to receive an end of a string; and  
10 a transverse portion comprising:  
11 at least one spring socket to receive an end of at least one biasing  
12 spring; and  
13 wherein the bend transitions the base plate to the transverse portion and  
14 the bend and the transverse portion are approximately parallel to  
15 the pivot axis.  
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104. (new) A fulcrum tremolo comprising an intonation module with a forward portion  
17 and a rearward portion:  
18 the intonation module comprising:  
19 a base;  
20 a bridge element connected to the base, the bridge element located closer  
21 to the forward end forming a second critical point; and  
22 wherein the rearward portion forms a string anchoring point closer to the  
23 base than the second critical point; and  
24 wherein the string anchoring point is located a critical distance from the  
25 second critical point operable to render a string as approximately  
inextensible between the anchoring point and the second critical  
point.

1 105. (new) The fulcrum tremolo of claim 104, wherein the intonation further  
comprises:

2 a macro tuner.

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4 106. (new) The fulcrum tremolo of claim 104, wherein the critical distance is at least  
0.25 inch.

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6 107. (new) The fulcrum tremolo of claim 104, wherein the critical distance is about  
7 equal to the length of conventional musical instrument string wrapping.

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9 108. (new) The fulcrum tremolo of claim 104, wherein the intonation module further  
comprises:

10 a macro tuner.

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12 109. (new) The fulcrum tremolo of claim 104, further comprising:  
13 a base plate attached to the intonation module, the base plate comprising a string  
14 hole.

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110. (new) A fulcrum tremolo with a forward end and a rearward end, the fulcrum  
1 tremolo comprising:  
2 a base plate comprising a string hole,  
3 a spring holder that is transverse to the base plate and attached to the base plate  
4 comprising:  
5 a first string anchoring point; and  
6 a string passageway having an axis wherein a longitudinal axis of the  
7 string passageway aligns with the string hole;  
8 an intonation module attached to the spring holder comprising:  
9 a base;  
10 a bridge element connected to the base, the bridge element located closer  
11 to the forward end than the rearward end and forming a second  
12 critical point; and  
13 wherein the rearward portion forms an alternate string anchoring point  
14 closer to the base than the second critical point; and  
15 wherein the alternate string anchoring point is located a critical distance  
16 from the second critical point so that a string is rendered  
17 essentially inextensible between the alternate string anchoring  
18 point and the second critical point.

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111. (new) The fulcrum tremolo of claim 110, wherein the intonation module further  
comprises:

a macro tuner.

112. (new) A tremolo for a stringed musical instrument comprising:  
1 at least one support element; and  
2 a unitary component that is a single piece of bent material comprising:  
3 a base plate being approximately planar, comprising:  
4 a forward edge, a portion of the forward edge being a pivot and  
5 forming a pivot axis, and  
6 an end opposite of the forward edge;  
7 a bend in the unitary component at an opposite end of the forward edge of  
8 the base plate;  
9 a transverse portion comprising:  
10 at least one spring socket to receive an end of at least one biasing  
11 element; and  
12 at least one string socket formed in the single piece of bent material to  
13 receive an anchor of a string,  
14 wherein the bend transitions the base plate to the transverse portion, and  
15 wherein the bend and the transverse portion are approximately parallel to  
16 the pivot axis, and  
17 wherein the unitary component is connected to the at least one support  
18 element.
113. (new) The tremolo of claim 112, wherein the transverse portion further  
19 comprises:  
20 the at least one string socket.
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114. (new) A fulcrum tremolo for a stringed musical instrument comprising:  
1 a unitary component that is a single piece of bent material comprising:  
2 a base plate being approximately planar, comprising:  
3 a forward edge, a portion of the forward edge being a pivot and  
4 forming a pivot axis, and  
5 an end opposite of the forward edge;  
6 a first bend in the unitary component at an opposite end of the forward  
7 edge of the base plate;  
8 at least one string socket to receive an end of a string; and  
9 a transverse portion comprising:  
10 at least one spring socket to receive an end of at least one biasing  
11 element,  
12 wherein the first bend transitions the base plate to the transverse portion,  
13 and  
14 wherein the first bend and the transverse portion are approximately  
15 parallel to the pivot axis,  
16 a second critical point connected to the unitary component.

115. (new) The fulcrum tremolo of claim 114, wherein the first bend further  
16 comprises:  
17 a reinforcement.

18 116. (new) The fulcrum tremolo of claim 114, wherein the transverse portion further  
19 comprises:  
20 a spring blade.

117. (new) The fulcrum tremolo of claim 116, wherein the base plate further  
1 comprises at least one string hole, and

2 wherein the spring blade further comprises:

3 an upper portion;

4 a lower portion comprising at least one string passageway, each of the at  
5 least one string passageway is aligned with at least one of the least  
one string hole in the base plate; and

6 a second bend that transitions from the upper portion to the lower portion,  
7 wherein the lower portion being bent transverse the upper portion.

8 118. (new) The fulcrum tremolo of claim 116, wherein the transverse portion further  
9 comprises:

10 at least one tier for displacing the at least one second critical point from the base  
11 plate.

12 119. (new) The fulcrum tremolo of claim 114, wherein the transverse portion further  
13 comprises:

14 the at least one string socket.

15 120. (new) The fulcrum tremolo of claim 114, wherein the pivot further comprises:  
16 a pivot having a knife edge.

18 121. (new) The fulcrum tremolo of claim 114, wherein the pivot further comprises:  
19 a pivot having a beveled edge.

20 122. (new) The fulcrum tremolo of claim 114, wherein the pivot further comprises:  
21 a least a portion of a bearing surface.

23 123. (new) The fulcrum tremolo of claim 114, wherein the pivot further comprises:  
24 at least a portion of a ball bearing surface; and  
25 at least a portion of a shaft.

- 1 124. (new) The fulcrum tremolo of claim 114, wherein the pivot further comprises:  
2 a plurality of ring bearings.

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